

# BLADE FOR COMPRESSOR AND MANUFACTURE THEREOF

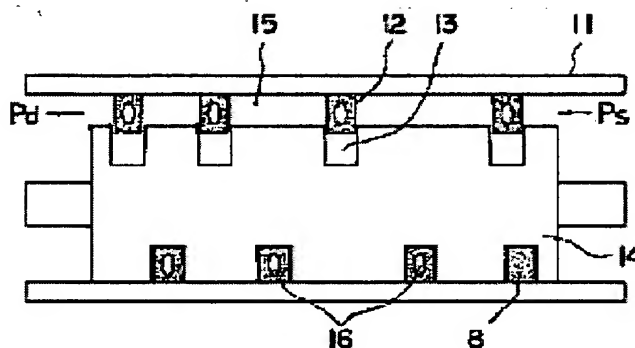
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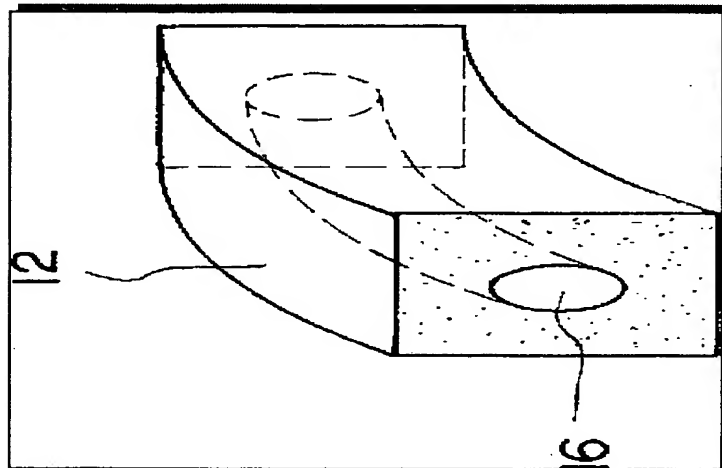
## Abstract of JP10061575

**PROBLEM TO BE SOLVED:** To easily get a blade in/from a spiral groove, and to improve the sliding characteristic, abrasion resistance and sealing property by forming a space inside of a spiral blade made of fluoro-resin, which forms a compressing element of a compressor, along the spiral direction thereof, and communicating a part of this space with a compression chamber.

**SOLUTION:** A compressing element of a helical blade compressor is formed of a spiral blade 12, which is made of PTFE resin and which is arranged along the inner peripheral surface of a cylindrical cylinder 11, and a piston 14 having a spiral groove 13, in which the blade is to be fitted, and the pitch of the spiral groove 13 is formed so as to be gradually reduced from a coolant inlet side toward the coolant outlet side. In this case, the blade 12 is formed into the hollow structure having a square cross section having a space 16 inside thereof, and a part of the space 16 is opened to a high-pressure Pd side, and while formed into the closed-shape at a low-pressure Ps side. Flexibility is thereby increased by providing the space 16 in the blade 12, and the blade can be easily get in/from the spiral groove 13.



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ブレード	中空部浸率 (%)	コブ生成係数
70-12	0	100
70-12	10	104
	20	109
	30	110
	40	105
	50	35

項目	グレード	コンパ成端係数
実例	グレード12	117
比較例	グレード開放端型	106
		100

